DESCRIPTION

High Wattage T4 E11 quartz round wall-mount cylinder fixture in choice of white, matte black or bronze finish can be used to blend with or accent varying architectural styles. Trim includes upper reflector and lower shielding cone in various finishes allowing customizing of lighting effects. Lamp socket/heat sink assembly attaches without tools to upper reflector maintaining proper focus for different lamp wattages and beam distributions.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Reflector
Spun 0.060" thick high purity aluminum reflector with specular clear Alzak® finish. Reflector is mounted to stamped steel frame allowing rapid field installation. Alignment tabs and collar provides correct focus for all three distributions eliminating installation errors.

B ... Lower Cone
Spun 0.060" thick high purity aluminum cone is available in all standard and special cone colors. Lower cone assembly attaches with torsion springs.

C ... Housing
Round seamless .050 spun aluminum housing available in white, bronze or matte black. Custom colors available - consult factory.

D ... Mounting
Wall mount - wall bracket mounting plate installs to wall mounted junction box.

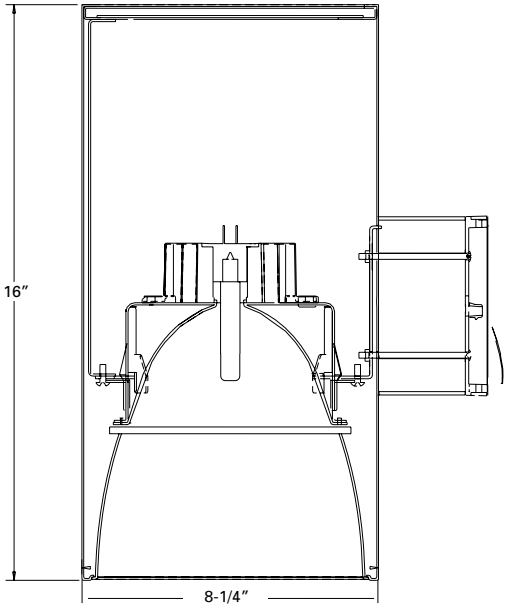
E ... Socket
Socket assembly houses mini-can (E11) socket. Lamp and socket are field replaceable. Integral die cast aluminum heat sink conducts heat away from lamp base and socket greatly extending life. Securely attaches to upper reflector mounting bracket providing proper lamp position for all distributions.

Labels
cULus listed, standard damp label.

H77250QT4
H77500QT4

High Wattage Quartz Wall-Mount Cylinder
150/250W or 400/500W
T4 E11 Lamp

Narrow, Medium or Wide Beam



ORDERING INFORMATION

ORDERING INFORMATION: Complete unit consists of housing, ballast and trim.

Housing	Wattage	Finish	Trims	Finish	Accessories

Housing
H77= 8" T4 Quartz Wall Mount

Wattage
250QT4= 150/250W T4 QZ
500QT4= 400/500W T4 QZ

Finish
P=White
BZ=Bronze
MB=Matte Black

Trims
10740= Narrow Reflector
10750= Medium Reflector
10760= Wide Reflector

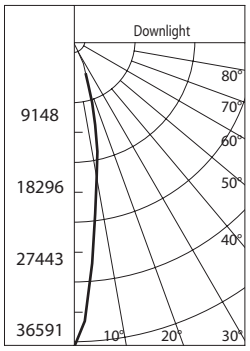
Finish
LI= Low Iridescent Clear
WMH= Warm Haze
WH= Wheat
W= Gloss White
GPH= Graphite Haze
KH= Cognac Haze
H= Haze
G= Gold
B= Specular Black
GP= Graphite
K= Cognac

Accessories
H277= Step Down Transformer, 300VA Max
FK5= 5 Amp Field Installed Fuse Kit 300V Max

PHOTOMETRICS

NARROW DISTRIBUTION

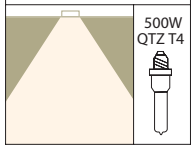
Candlepower Distribution Curve



Test Data

Spacing Criteria = 0.32
Efficiency = 71.5%

Test No. H22572
HD7500QT4 10740LI
Lamp = 500W QTZ T4



Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
20'0"	91	6'6"
25'0"	59	8'0"
30'0"	41	9'6"
40'0"	23	12'6"
50'0"	15	16'0"

Coefficients of Utilization

Ceiling	80%				70%				50%			30%			10%			0%
Wall %	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Zonal cavity method -- floor reflectance = 20%																	
0	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	82	81	79	78	80	79	78	77	76	75	74	74	73	72	71	71	70	69
2	79	77	74	73	78	75	73	72	73	72	70	71	70	69	69	68	67	66
3	77	73	71	68	75	72	70	68	71	69	67	69	67	66	67	66	65	64
4	74	70	67	65	73	69	67	65	68	66	64	67	65	63	65	64	63	62
5	72	68	64	62	71	67	64	62	66	63	61	65	63	61	64	62	60	60
6	70	65	62	60	69	65	62	60	64	61	59	63	60	59	62	60	58	58
7	68	63	60	58	67	62	59	57	62	59	57	61	59	57	60	58	57	56
8	66	61	58	56	65	60	57	55	60	57	55	59	57	55	58	56	55	54
9	64	59	56	54	63	59	56	54	58	55	54	57	55	53	57	55	53	53
10	62	57	54	52	61	57	54	52	56	54	52	56	53	52	55	53	52	51

Average Luminance

Angle	0°	45°	90°
45°	2512	2512	2512
55°	695	695	695
65°	600	600	600
75°	840	840	840
85°	2080	2080	2080

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0-30	6430.47	67.7	94.7
0-40	6715.9	70.7	98.9
0-60	6772.83	71.3	99.7
0-90	6790.99	71.5	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	6790.99	71.5	100

Zone	Lumens
0-10	2219.04
10-20	2840.13
20-30	1371.3
30-40	285.43
40-50	46.46
50-60	10.47
60-70	7.18
70-80	6.21
80-90	4.77
90-180	0

Candlepower

Degree	CD
0	36591
5	26393
15	10272
25	2916
35	370
45	49
55	11
65	7
75	6
85	5
90	0

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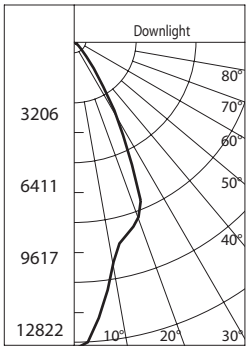
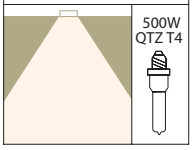
MEDIUM DISTRIBUTION

Candlepower Distribution Curve



Spacing Criteria = 0.74
Efficiency = 74.1%

Test No. H22570
HD7500QT4 10750LI
Lamp = 500W QTZ T4



Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
15'0"	57	11'0"
20'0"	32	14'6"
25'0"	21	18'0"
30'0"	14	21'6"
35'0"	10	25'0"

Coefficients of Utilization

Ceiling	80%				70%			50%	
Wall %	70	50	30	10	50	30	10	50	10
RCR	Zonal cavity method -- floor reflectance = 20%								
0	88	88	88	88	86	86	86	82	82
1	85	83	81	79	81	80	78	78	76
2	81	78	75	73	76	74	72	74	70
3	77	73	70	67	72	69	67	70	65
4	74	69	65	62	68	65	62	67	61
5	71	65	61	58	64	61	58	63	58
6	68	62	58	55	61	57	55	60	54
7	65	59	55	52	58	54	52	57	51
8	62	56	52	49	55	51	49	55	49
9	59	53	49	46	53	49	46	52	46
10	57	51	47	44	50	47	44	50	44

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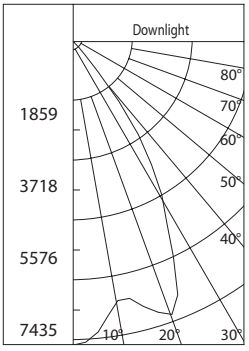
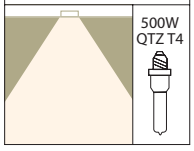
WIDE DISTRIBUTION

Candlepower Distribution Curve



Spacing Criteria = 1.02
Efficiency = 75.3%

Test No. H22569
HD7500QT4 10760LI
Lamp = 500W QTZ T4



Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
15'0"	33	15'0"
20'0"	19	20'0"
25'0"	12	25'0"
30'0"	8	30'6"
35'0"	6	35'6"

Coefficients of Utilization

Ceiling	80%				70%			50%	
Wall %	70	50	30	10	50	30	10	50	10
RCR	Zonal cavity method -- floor reflectance = 20%								
0	90	90	90	90	88	88	88	84	84
1	86	84	82	80	82	80	79	79	76
2	81	78	75	72	77	74	72	74	70
3	77	73	69	66	72	68	66	70	64
4	74	68	64	61	67	63	60	65	60
5	70	64	59	56	63	59	56	62	55
6	66	60	55	52	59	55	52	58	51
7	63	56	52	48	56	51	48	55	48
8	60	53	48	45	52	48	45	52	45
9	57	50	45	42	49	45	42	49	42
10	54	47	43	40	47	42	40	46	40